

Physics	Group-II	Paper
Time: 15 Minutes	(Objective Type)	Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark for that question.

1-1- Law of Inertia is known as:

- (a) First law of motion ✓
- (b) Second law of motion
- (c) Third law of motion
- (d) Momentum

2- Water freezes at:

- (a) 0°F
- (b) 32°F ✓
- (c) -273 K
- (d) 0°K

3- The Einstein's mass-energy equation 'C' is the

- (a) Speed of sound
- (b) Speed of light ✓
- (c) Speed of electron
- (d) Speed of earth

4- Cheetah can run at a speed of:

- (a) 50 km h^{-1}
- (b) 60 km h^{-1}
- (c) 70 km h^{-1} ✓
- (d) 80 km h^{-1}

5- One horsepower is equal to:

- (a) 744 W
- (b) 745 W
- (c) 746 W ✓
- (d) 748 W

Radiation is the mode of transfer of heat from one place to another in the form of waves called:

- (a) Mechanical waves
- (b) Transverse waves
- (c) Compressional waves
- (d) Electromagnetic waves ✓

Coefficient of friction between tyre and wet road is:

- (a) 0.1
- (b) 0.2 ✓
- (c) 0.3
- (d) 0.4

Value of $\sin 30^\circ$ is:

- (a) 0 (Zero)
- (b) 0.5 ✓
- (c) 0.707
- (d) 0.866

The value of 'g' at a height one earth's radius above the surface of earth is:

- (a) $2g$
- (b) $\frac{1}{2}g$
- (c) $\frac{1}{3}g$
- (d) $\frac{1}{4}g$ ✓

0- Thermal conductivity of wood is:

- (a) $0.06 \text{ Wm}^{-1} \text{ K}^{-1}$
- (b) $0.07 \text{ Wm}^{-1} \text{ K}^{-1}$
- (c) $0.08 \text{ Wm}^{-1} \text{ K}^{-1}$ ✓
- (d) $0.09 \text{ Wm}^{-1} \text{ K}^{-1}$

1- One litre is equal to:

- (a) 1 mm^3 ✓
- (b) 1 cm^3
- (c) 1 dm^3
- (d) 1 m^3

2- Density of ice is:

- (a) 900 kg m^{-3}
- (b) 910 kg m^{-3}
- (c) 920 kg m^{-3} ✓
- (d) 930 kg m^{-3}